

Claims

- [c1] 1. An article, comprising a thermoplastic resin composition, consisting essentially of:
an aromatic carbonate resin; and
a guanidine salt, derivatives or mixtures thereof, present in an amount of less than 1 wt.% based on the total weight of the composition;
wherein the article has a final form selected from the group consisting of an extruded sheet, a solid sheet, a multi-wall sheet, a corrugated sheet, and a profiled sheet.
- [c2] 2. The article of Claim 1, wherein said aromatic carbonate resin is selected from the group consisting of homopolymers, copolymers, linear polycarbonate resins, branched polycarbonate resins, and mixtures thereof.
- [c3] 3. The article of Claim 1, wherein said guanidine salt is an inorganic salt.
- [c4] 4. The article of Claim 1, wherein said guanidine salt or derivatives is selected from the group consisting of aminoguanidine nitrate, guanidine nitrate, triaminoguanidine nitrate, diaminoguanidine nitrate, guanidine carbonate, guanidine BPA, guanidine hydrochloride, guanidine bisulfite, guanidine sulfate, guanidine sulfamate, guanidine phosphate, guanidine hydrobromide, and mixtures thereof.
- [c5] 5. The article of Claim 1, wherein said guanidine salt, derivative, or mixture thereof is present in an amount of about 0.001 wt. % to about 0.5 wt. % based on the total weight of the composition.
- [c6] 6. The article of Claim 1, further comprising a fluorescing agent.
- [c7] 7. The article of Claim 1, wherein the final form is shaped by injection molding, extrusion, blow molding or vacuum.
- [c8] 8. The article of Claim 1, wherein the final form is the solid sheet having a weight from about 0.5 to about 15 kilograms per square meter.
- [c9] 9. The article of Claim 1, wherein the final form is the multi-wall sheet having a

weight from about 0.5 to about 8 kilograms per square meter.

- [c10] 10. The article of Claim 1, having a thickness from about 0.5 mm to about 15 mm.
- [c11] 11. The article of Claim 1, having a thickness from about 2 mm to about 50 mm.
- [c12] 12. An article, comprising a thermoplastic resin composition, consisting essentially of:
 - an aromatic carbonate resin;
 - a guanidine salt, derivatives or mixtures thereof, present in an amount of less than 1 wt.% based on the total weight of the composition; and
 - a graft copolymer component comprising a graft portion formed from at least two ethylenically unsaturated monomers and a rubbery polymer substrate; wherein the article has a final form selected from the group consisting of an extruded sheet, a solid sheet, a multi-wall sheet, a corrugated sheet, and a profiled sheet.
- [c13] 13. The article of Claim 12, wherein said aromatic carbonate resin is selected from the group consisting of homopolymers, copolymers, linear polycarbonate resins, branched polycarbonate resins, and mixtures thereof.
- [c14] 14. The article of Claim 12, wherein said guanidine salt is an inorganic salt.
- [c15] 15. The article of Claim 12, wherein said guanidine salt or derivatives is selected from the group consisting of aminoguanidine nitrate, guanidine nitrate, triaminoguanidine nitrate, diaminoguanidine nitrate, guanidine carbonate, guanidine BPA, guanidine hydrochloride, guanidine bisulfite, guanidine sulfate, guanidine sulfamate, guanidine phosphate, guanidine hydrobromide, and mixtures thereof.
- [c16] 16. The article of Claim 12, wherein said guanidine salt, derivative, or mixture thereof is present in an amount of about 0.001 wt. % to about 0.5 wt. % based on the total weight of the composition.
- [c17] 17. The article of Claim 12, further comprising a fluorescing agent.

- [c18] 18.The article of Claim 12, wherein the final form is shaped by injection molding, extrusion, blow molding or vacuum.
 - [c19] 19. The article of Claim 12, wherein the final form is the solid sheet having a weight from about 0.5 to about 15 kilograms per square meter.
 - [c20] 20.The article of Claim 12, wherein the final form is the multi-wall sheet having a weight from about 0.5 to about 8 kilograms per square meter.
 - [c21] 21. The article of Claim 12, having a thickness from about 0.5 mm to about 15 mm.
 - [c22] 22. The article of Claim 12, having a thickness from about 2 mm to about 50 mm.
 - [c23] 23. An article, comprising a thermoplastic resin composition, consisting essentially of:
 - an aromatic carbonate resin;
 - a guanidine salt, derivatives or mixtures thereof, present in an amount of less than 1 wt.% based on the total weight of the composition; and
 - at least one resin component selected from the group consisting of polypropylene, polystyrene, polymethyl methacrylate, polyphenylene oxide, polyester, and mixtures thereof;
 - wherein the article has a final form selected from the group consisting of an extruded sheet, a solid sheet, a multi-wall sheet, a corrugated sheet, and a profiled sheet.
 - [c24] 24.The article of Claim 23, wherein said aromatic carbonate resin is selected from the group consisting of homopolymers, copolymers, linear polycarbonate resins, branched polycarbonate resins, and mixtures thereof.
 - [c25] 25.The article of Claim 23, wherein said guanidine salt is an inorganic salt.
 - [c26] 26.The article of Claim 23, wherein said guanidine salt or derivatives is selected from the group consisting of aminoguanidine nitrate, guanidine nitrate, triaminoguanidine nitrate, diaminoguanidine nitrate, guanidine carbonate,

guanidine BPA, guanidine hydrochloride, guanidine bisulfite, guanidine sulfate, guanidine sulfamate, guanidine phosphate, guanidine hydrobromide, and mixtures thereof.

- [c27] 27.The article of Claim 23, wherein said guanidine salt, derivative, or mixture thereof is present in an amount of about 0.001 wt. % to about 0.5 wt. % based on the total weight of the composition.
- [c28] 28.The article of Claim 23, further comprising a fluorescing agent.
- [c29] 29.The article of Claim 23, wherein the final form is shaped by injection molding, extrusion, blow molding or vacuum.
- [c30] 30. The article of Claim 23, wherein the final form is the solid sheet having a weight from about 0.5 to about 15 kilograms per square meter.
- [c31] 31.The article of Claim 23, wherein the final form is the multi-wall sheet having a weight from about 0.5 to about 8 kilograms per square meter.
- [c32] 32. The article of Claim 23, having a thickness from about 0.5 mm to about 15 mm.
- [c33] 33. The article of Claim 23, having a thickness from about 2 mm to about 50 mm.